

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,627,336 B2

APPLICATION NO. : 10/596,730

ISSUE DATE : December 1, 2009

INVENTOR(S) : Carlsson, et al.

Pg 1 of 12

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The title page showing the illustrative figure should be deleted to be replaced with the attached title page.

The drawing sheet, consisting of Fig. 1, should be deleted to be replaced with the drawing sheet, consisting of Fig. 1, as shown on the attached page.



US007627336B2

Pg 2 of 12

(12) **United States Patent**  
**Carlsson et al.**

(10) **Patent No.:** **US 7,627,336 B2**  
 (45) **Date of Patent:** **Dec. 1, 2009**

(54) **POWER CONTROL FOR HIGH SPEED  
 PACKET DATA TRANSMISSION**

FOREIGN PATENT DOCUMENTS

EP 1351411 A1 10/2003

(75) Inventors: **Roland Carlsson, Ojersjo (SE);  
 Torbjorn Karlsson, Lindome (SE)**

(73) Assignee: **Telefonaktiebolaget L M Ericsson  
 (Publ), Stockholm (SE)**

(Continued)

OTHER PUBLICATIONS

(\*) Notice: Subject to any disclaimer, the term of this  
 patent is extended or adjusted under 35  
 U.S.C. 154(b) by 693 days.

Swedish Patent Office, International Search Report for PCT/SE2003/  
 002053, dated Jul. 16, 2004.

(21) Appl. No.: **10/596,730**

Primary Examiner—Matthew D Anderson

(22) PCT Filed: **Dec. 22, 2003**

Assistant Examiner—Bobbak Safaipoor

(86) PCT No.: **PCT/SE03/02053**

(74) Attorney, Agent, or Firm—Roger S. Burleigh

(57) **ABSTRACT**

§ 371 (c)(1),  
 (2), (4) Date: **Jun. 22, 2006**

(87) PCT Pub. No.: **WO2005/062489**

PCT Pub. Date: **Jul. 7, 2005**

(65) **Prior Publication Data**  
 US 2007/0111745 A1 May 17, 2007

(51) Int. Cl.  
**H04B 7/00** (2006.01)  
**H04B 1/00** (2006.01)  
**H04B 7/185** (2006.01)

(52) U.S. Cl. .... **455/522; 455/69; 370/318**

(58) Field of Classification Search ..... **455/522,  
 455/69; 370/318**

See application file for complete search history.

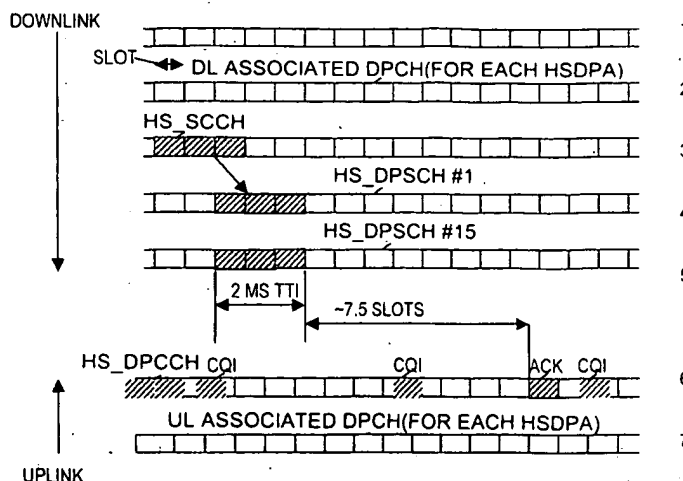
(56) **References Cited**

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 5,982,760 A \* 11/1999 Chen ..... 370/335  
 6,628,924 B1 \* 9/2003 Miyamoto ..... 455/69

(Continued)

7 Claims, 8 Drawing Sheets



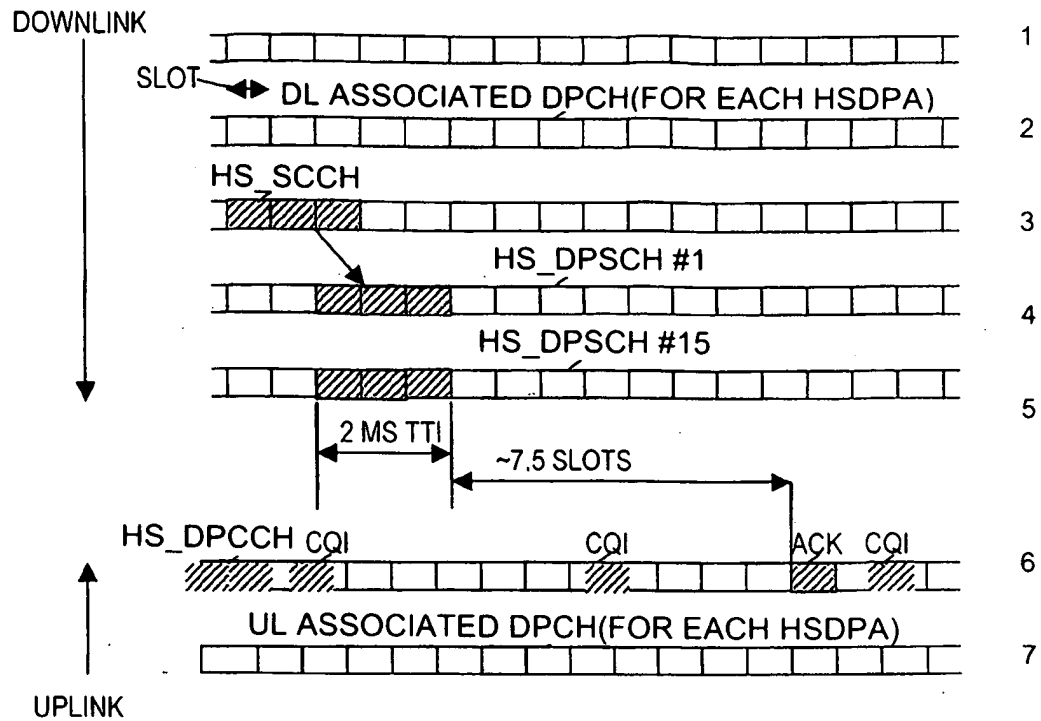


FIG. 1

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

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Page 1 of 9

PATENT NO. : 7,627,336 B2  
APPLICATION NO. : 10/596,730  
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INVENTOR(S) : Carlsson, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

*title item*  
On the ~~Each~~ Page, in ~~Field~~ (57), under "ABSTRACT", in Column 2, Line 9, delete "HSPDA" and insert - - HSDPA - -, therefor.

*title item*  
On the ~~Each~~ Page, in ~~Field~~ (57), under "ABSTRACT", in Column 2, Line 15, delete "(P\_HS(t-1))" and insert - - (P\_H(t-1)) - -, therefor.

*title item*  
On the ~~Each~~ Page, in ~~Field~~ (57), under "ABSTRACT", in Column 2, Lines 20-21, delete "(P\_HS(t-1))" and insert - - (P\_H(t-1)) - -, therefor.

*title*  
On the ~~Each~~ Page, in the Drawing, for Tag "2", delete "HSPDA" and insert - - HSDPA - -, therefor.

*title*  
On the ~~Each~~ Page, in the Drawing, for Tag "3", delete "HS-SCCH" and insert - - HS\_SCCH - -, therefor.

*title*  
On the ~~Each~~ Page, in the Drawing, for Tag "4", delete "HS-DPSCH" and insert - - HS\_DPSCH - -, therefor.

*title*  
On the ~~Each~~ Page, in the Drawing, for Tag "5", delete "HS-DPSCH" and insert - - HS\_DPSCH - -, therefor.

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Page 2 of 9

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<sup>title</sup>  
On the ~~Page~~ Page, in the Drawing, for Tag "6", delete "HS-DPCCH" and  
insert - - HS\_DPCCH - -, therefor.

<sup>title</sup>  
On the ~~Page~~ Page, in the Drawing, for Tag "7", delete "HSPDA" and  
insert - - HSPDA - -, therefor.

In Fig. 1, Sheet 1 of 8, for Tag "2", delete "HSPDA" and insert - - HSDPA - -, therefor.

In Fig. 1, Sheet 1 of 8, for Tag "3", delete "HS-SCCH" and insert - - HS\_SCCH - -, therefor.

In Fig. 1, Sheet 1 of 8, for Tag "4", delete "HS-DPSCH" and  
insert - - HS\_DPSCH - -, therefor.

In Fig. 1, Sheet 1 of 8, for Tag "5", delete "HS-DPSCH" and  
insert - - HS\_DPSCH - -, therefor.

In Fig. 1, Sheet 1 of 8, for Tag "6", delete "HS-DPCCH" and  
insert - - HS\_DPCCH - -, therefor.

In Fig. 1, Sheet 1 of 8, for Tag "7", delete "HSPDA" and insert - - HSDPA - -, therefor.

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Page ~~3 of 9~~

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INVENTOR(S) : Carlsson, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

- In Fig. 2, Sheet 2 of 8, delete "N-TH" and insert - - N\_TH - -, therefor.
- In Fig. 5, Sheet 3 of 8, delete "HS-PDSCH" and insert - - HS\_PDSCH - -, therefor.
- In Fig. 5, Sheet 3 of 8, delete "HS-SCCH" and insert - - HS\_SCCH - -, therefor.
- In Fig. 5, Sheet 3 of 8, delete "POWER AMP" and insert - - POWER\_AMP - -, therefor.
- In Fig. 5, Sheet 3 of 8, delete "PWR CTRL" and insert - - PWR\_CTRL - -, therefor.
- In Fig. 5, Sheet 3 of 8, delete "TCP CMD" and insert - - TCP\_CMD - -, therefor.
- In Fig. 7, Sheet 4 of 8, delete "HS-SCCH" and insert - - HS\_SCCH - -, therefor.
- In Fig. 7, Sheet 4 of 8, delete "HS-PDSCH" and insert - - HS\_PDSCH - -, therefor.
- In Fig. 8, Sheet 5 of 8, delete "SCHDEDULE" and insert - - SCHEDULE - -, therefor.
- In Fig. 9, Sheet 6 of 8, delete "P H(t)" and insert - - P\_H(t) - -, therefor.
- In Fig. 10, Sheet 6 of 8, delete "P H(t)" and insert - - P\_H(t) - -, therefor.

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*PS 7/2/12*

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PATENT NO. : 7,627,336 B2

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ISSUE DATE : December 1, 2009

INVENTOR(S) : Carlsson, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Fig. 11, Sheet 6 of 8, delete "P H(t)" and insert - - P\_H(t) - -, therefor.

In Fig. 12, Sheet 7 of 8, delete "P H(t)" and insert - - P\_H(t) - -, therefor.

In Fig. 13, Sheet 7 of 8, delete "P H(t)" and insert - - P\_H(t) - -, therefor.

In Column 1, Line 10, delete "packet" before "downlink".

In Column 1, Line 11, delete "(HSPDA)." and insert - - (HSDPA). - -, therefor.

In Column 2, Line 37, delete "(HSPDA).," and insert - - (HSDPA).," - -, therefor.

In Column 2, Line 38, delete "HSPDA" and insert - - HSDPA - -, therefor.

In Column 2, Line 48, delete "HSPDA." and insert - - HSDPA. - -, therefor.

In Column 2, Line 51, delete "HSPDA" and insert - - HSDPA - -, therefor.

In Column 2, Line 53, delete "HSPDA" and insert - - HSDPA - -, therefor.

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Page 5 of 9

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ISSUE DATE : December 1, 2009  
INVENTOR(S) : Carlsson, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

- In Column 2, Line 56, delete "HSPDA" and insert - - HSDPA - -, therefor.
- In Column 2, Line 57, delete "HSPDA" and insert - - HSDPA - -, therefor.
- In Column 2, Line 66, delete "HSPDA" and insert - - HSDPA - -, therefor.
- In Column 3, Line 5, delete "non-HSPDA" and insert - - non-HSDPA - -, therefor.
- In Column 3, Line 7, delete "NON\_HSPDA" and insert - - NON\_HSDPA - -, therefor.
- In Column 3, Line 11, delete "HSPDA" and insert - - HSDPA - -, therefor.
- In Column 3, Line 12, delete "I\_HSPDA" and insert - - I\_HSDPA - -, therefor.
- In Column 3, Line 16, delete "the HSPDA" and insert - - the HSDPA - -, therefor.
- In Column 3, Line 17, after "used" delete "HSPDA" and insert - - HSDPA - -, therefor.
- In Column 3, Line 20, delete "HSPDA" and insert - - HSDPA - -, therefor.
- In Column 3, Line 33, delete "throughput" and insert - - throughput. - -, therefor.

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Page 6 of 9

PATENT NO. : 7,627,336 B2  
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INVENTOR(S) : Carlsson, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

- In Column 3, Line 38, delete "HSPDA" and insert - - HSDPA - -, therefor.
- In Column 3, Line 49, delete "HSPDA," and insert - - HSDPA, - -, therefor.
- In Column 3, Line 52, after "the" delete "HSPDA" and insert - - HSDPA - -, therefor.
- In Column 3, Line 53, after "used" delete "HSPDA" and insert - - HSDPA - -, therefor.
- In Column 3, Line 55, delete "HSPDA" and insert - - HSDPA - -, therefor.
- In Column 4, Line 2, delete "in-put" and insert - - input - -, therefor.
- In Column 4, Line 8, delete "HSPDA" and insert - - HSDPA - -, therefor.
- In Column 4, Line 12, delete "non-HSPDA" and insert - - non-HSDPA - -, therefor.
- In Column 4, Line 19, delete "dB/0,67" and insert - - dB/0.67 - -, therefor.
- In Column 4, Line 61, delete "POWER AMP," and insert - - POWER\_AMP, - -, therefor.
- In Column 5, Line 16, delete "HSPDA" and insert - - HSDPA - -, therefor.

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In Column 5, Line 17, delete "The HSPDA" and insert - - The HSDPA - -, therefor.

In Column 5, Line 17, after "schedules" delete "HSPDA" and insert - - HSDPA - -, therefor.

In Column 5, Line 21, delete "HSPDA" and insert - - HSDPA - -, therefor.

In Column 5, Line 23, delete "HSPDA" and insert - - HSDPA - -, therefor.

In Column 5, Line 31, delete "HSPDA" and insert - - HSDPA - -, therefor.

In Column 5, Line 32, delete "DATAI," and insert - - DATA1, - -, therefor.

In Column 5, Line 33, delete "HSPDA" and insert - - HSDPA - -, therefor.

In Column 5, Lines 33-34, delete "HS\_SCH DR" and insert - - HS\_SCHDR - -, therefor.

In Column 5, Line 34, delete "HSPDA" and insert - - HSDPA - -, therefor.

In Column 5, Line 51, delete "(P\_HS(t-1))" and insert - - (P\_H(t-1)) - -, therefor.

In Column 5, Line 57, delete "(P\_HS(t-1))" and insert - - (P\_H(t-1)) - -, therefor.

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110212

Page 8 of 9

PATENT NO. : 7,627,336 B2

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INVENTOR(S) : Carlsson, et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Column 6, Line 3, delete "HSPDA" and insert - - HSDPA - -, therefor.

In Column 6, Line 18, delete "HSPDA" and insert - - HSDPA - -, therefor.

In Column 6, Line 19, delete "HSPDA" and insert - - HSDPA - -, therefor.

In Column 6, Line 21, delete "HSPDA" and insert - - HSDPA - -, therefor.

In Column 6, Line 32, delete "HSPDA" and insert - - HSDPA - -, therefor.

In Column 6, Line 35, delete "HSPDA" and insert - - HSDPA - -, therefor.

In Column 6, Line 41, delete "P\_Perm" and insert - - P\_PERM - -, therefor.

In Column 6, Line 48, delete "HSPDA" and insert - - HSDPA - -, therefor.

In Column 6, Line 51, delete "HSPDA" and insert - - HSDPA - -, therefor.

In Column 6, Line 54, delete "P\_POS" and insert - - P\_POS(t) - -, therefor.

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In Column 6, Line 54, delete "HSPDA" and insert - - HSDPA - -, therefor.

In Column 6, Line 57, delete "HSPDA" and insert - - HSDPA - -, therefor.

In Column 6, Line 58, delete "HSPDA" and insert - - HSDPA - -, therefor.

In Column 8, Line 11, in Claim 5, delete "(ODMA)" and insert - - (CDMA) - -, therefor.

In Column 8, Line 14, in Claim 6, delete "(HSPDA)." and insert - - (HSDPA). - -, therefor.

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